



Model		LSC688S3
Standby Power	KVA	688
	KW	1
Prime Power	KVA	550
	KW	1
Frequency	Hz	50
Voltage	V	230/400
Rated speed	rpm	1500

Cummins has distributors in 137 countries and regions, 5000 service networks spread all over the world. As the largest foreign investor of Chinese engine manufacturing industry, Cummins own Chongqing Cummins facility (producing M, N, and K series diesel engine) and Dongfeng Cummins facility (producing B, C, and L series diesel engine). Lees is the OEM partner of Cummins engine.

- Performance---Wider power ranges mean greater versatility for use in more applications: commercial, institutional, industrial, utilities, communications, government and more.
- Lower operating and maintenance costs---An increase in oil change intervals, longer life of components, longer top-end as well as full-overhaul periods, and reduced fuel consumption result in lower operating and maintenance costs..
- Easy operation---Each generator set is equipped with a baseframe-mounted control cabinet, together with Deep Sea 7320 controller as standard, and integral circuit breaker, ensuring a dependable and user-friendly operating system.
- Improved serviceability---Every Lees components was designed with serviceability in mind, resulting in simple, robust components that makes servicing fast and easy. The entire engine is built with internationally available tools and hardware.



Cummins engine → Model: KTAA19-G6A



Cummins KTAA19-G6A: In-line, 6 Cylinder, 4 Cycle, Diesel Engine			
Bore X Stroke (mm)	159x159		
Displacement (L)	18.9		
Compression ratio	13:1		
Rated RPM	1500		
Max. Standby power at rated RPM	610		
Cylinder arrangement	6 in line		
Air intake system	Turbo, air/air cooling		
Fuel system	PT type fuel pump, EFC		
Governor type	Electrical		

Fuel System		
100% (prime power) load	206 g/kw.h	
75% (prime power) load	205 g/kw.h	
50% (prime power) load	206 g/kw.h	

Oil System	
Total oil capacity (L)	50
Oil consumption (L/h) ≤4	
Engine oil tank capacity (L)	38
Oil pressure at rated speed (kPa)	345-483

Exhaust System		
Maximum allowable back pressure (kPa)	2054	
Exhaust temperature (℃)	584	
Exhaust gas flow (L/s)	10.0	

Cooling System	
Coolant capacity (L)	116.5
Thermostat (℃)	82-93
Max. coolant temperature (℃)	104

Air intake System	
Max. intake restriction (kPa)	6.23
Consumption (L/s)	750
Air flow (L/s)	10800



Alternator

Main features:

- 12 wire reconnectable stator/terminal arrangement
- Easy access for installation and maintenance
- 2/3 pitch winding as standard, to avoid excessive neutral currents
- Class H insulation with severe environmental protection as standard
- Built to conform with all leading industrial and marine standards
- 460 AVR as standard with 1.5% regulation and 2 phase sensing
- IP23 as standard

Alternator specifications			
Control system	Self excited		
A.V.R.	AS440		
Voltage regulation	±1.0%		
Insulation system	Class H		
Protection	IP23		
Stator winding	Double layer lap		
Winding pitch	2/3		
Winding leads	12		
Stator wdg. resistance	0.0037 Ohms per phase at 22°C series star connected		
Rotor wdg. resistance	2.16 Ohms at 22℃		
Excited stator resistance	17 Ohms at 22℃		
Excited rotor resistance	0.092 Ohms per phase at 22℃		
Waveform distortion	No load <1.5% non-distorting balanced linear load <5.0%		
Maximum overspeed	2250 Rev/Min		
Bearing drive end	BALL.6220 (ISO)		
Bearing non-drive end	BALL.6314 (ISO)		
Packing crate size	166X87X124 (cm)		
Telephone interference	THF<2% (50Hz)		
Cooling air	1.035m3/sec 2202 cfm		

Alternator options			
Stamford	S5L1D-F4		
Leroy Somer	TAL047F		
Lees	LA 5FS		









Deepsea control module Model: 7320

The DSE7320 is an Auto Mains (Utility) Failure Control Module suitable for a wide variety of single, diesel or gas, gen-set applications.



Monitoring an extensive number of engine parameters, the modules will display warnings, shutdown and engine status information on the back-lit LCD screen, illuminated LEDs, remote PC and via SMS test alerts (with external modem).

The DSE7320 will also monitor the mains (utility) supply. The modules include USB, RS232 and RS485 ports as well as dedicated DSENet terminals for system expansion.



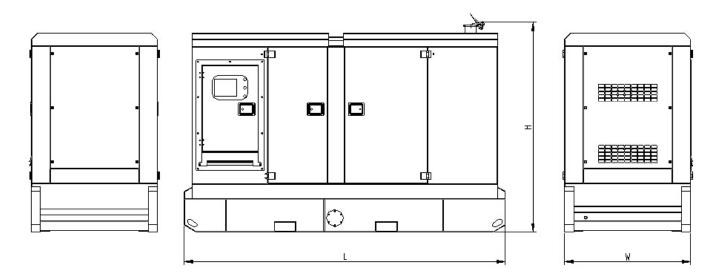
Key Features:

- 4-line back-lit LCD text display
- Five key menu navigation
- Front panel editing with PIN protection
- LED and LCD alarm indication
- Customisable status screens
- Power save mode
- Support for up to three remote display units
- 9 configurable inputs
- 8 configurable outputs
- Flexible sender inputs
- Configurable timers and alarms
- 3 configurable maintenance alarms
- Multiple date and time scheduler
- Configurable event log (250)
- Control logic facilities
- Easy access diagnostic page
- CAN and Magnetic Pick-up / Alt. Sensing
- Fuel usage monitor and low fuel alarms
- Charger alternator failure alarm
- Manual speed control
- Manual fuel pump control

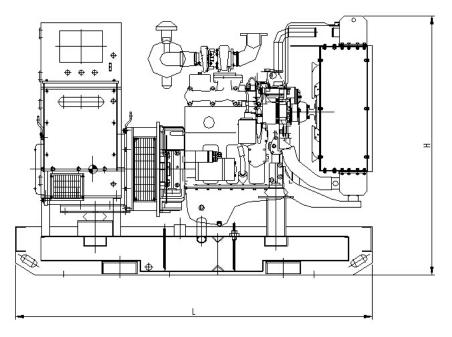
- Engine exerciser
- "Protections disabled" feature
- kW overload protection
- Power monitoring
- Load switching (load shedding and dummy load outputs)
- Automatic load transfer
- Unbalanced load protection
- Independent Earth Fault trip
- USB connectivity
- Backed up real time clock
- Fully configurable via DSE Configurable Suite PC software
- Configurable display languages
- Remote SCADA monitoring via DSE Configuration Suite PC software
- User selectable RS232 and RS485 communications
- SMS Messaging (additional external modem required)
- Additional display screens to help with modem diagnostics
- DSENet expansion compatible
- Integral PLC editor

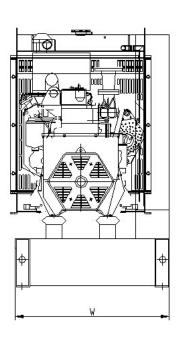


Overview dimension & Sound levels



LSC688S3 (Silent type)				
Configuration	L= Length (mm)	W= Width (mm)	H= Height (mm)	Weight (kg)
Enclosed set	5060	1912	2530	5900





LSC688E3 (Open type)				
Configuration	L= Length (mm)	W= Width (mm)	H= Height (mm)	Weight (kg)
Open set	3650	1638	2050	4800



Generating Sets Standard and Optional Features

Engine:

- 4-stroke, water-cooled diesel engine
- Standard air filter
- Standard fuel filter
- Standard oil filter
- Oil temperature sensor
- Low coolant level sensor
- 24V electrical system
- Radiator with blowing fan
- Industrial silence
- Fuel water separator (optional)
- Water jacket heater (optional)

Alternator:

- Class H insulation
- IP23 Protection
- Automatic Voltage Regulator (AVR)
- PMG excitation
- Single bearing alternator

Electrical system:

- DSE 7320 control module
- Maintenance-free and anti-explosion battery
- Standard breaker
- ABB breaker (optional)
- ATS (optional)

- Battery charger (optional)
- GMS monitoring (optional)

Packing:

- Engine manual
- Alternator manual
- Gensets operation and maintenance manual
- Tool kit

Baseframe:

- Forklift pockets
- Pulling slots
- Earth wire protection
- Built-in anti vibration mountings
- Fuel outlet value
- Standard 8 hours fuel tank
- Enlarged 24 hours fuel tank (optional)
- Separated fuel tank (optional)

Canopy:

- Weatherproof & sound-attenated canopy
- Sound-absorbing material
- Lifting lug
- Emergency stop button
- Inside silencer
- Trailer (optional)

Contact your distributor / dealer for more information

WUXI LEES POWER COMPANY LIMITED

NO.312 Highway, Luoshe Town, Wuxi, China, 214000

Tel: 86-510-85166446 Fax: 86-510-85168446 Web:<u>www.leespower.com</u> Email: <u>lees@leespower.com</u>

